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IN THE U. S. PATENT AND TRADEMARK OFFICE

In re Application of: Doty  
Application Number: 09/863,128  
Filed: 05/22/2001  
For: DETECTION OF IONIZING RADIATION  
BY POLYMER MATERIALS  
Art Unit: 2877  
Examiner: Stock, G.  
Attorney Docket No: SD-8286

RESPONSE

Sir:

Applicants submit the following in complete response to the Office Action of 08/23/2006, a non-final action. In view of the response below, Applicants request reconsideration and allowance of the claims.

IN THE CLAIMS

**Please amend the claims as follows:**

1-34 (canceled)

35. (currently amended) A device for detecting ionizing radiation, comprising: an array of wires embedded in ~~the material of claim 1~~ a solid organic semiconducting material consisting essentially of a  $\pi$ -conjugated material having an electrical resistivity of at least  $10^9$  ohm-cm, the array comprising a first ~~set~~ plurality of parallel spaced apart wires intersecting orthogonally with a second ~~set~~ plurality of parallel spaced apart wires, wherein each wire in the first plurality intersects with each wire in the second plurality; and means for supplying power to the array.
36. (currently amended) The device of claim 35, wherein the wires in each array are spaced at a distance of from  $10\mu\text{m}$  to  $100\mu\text{m}$  apart.